

UL 1741 SB Compliance Timeline

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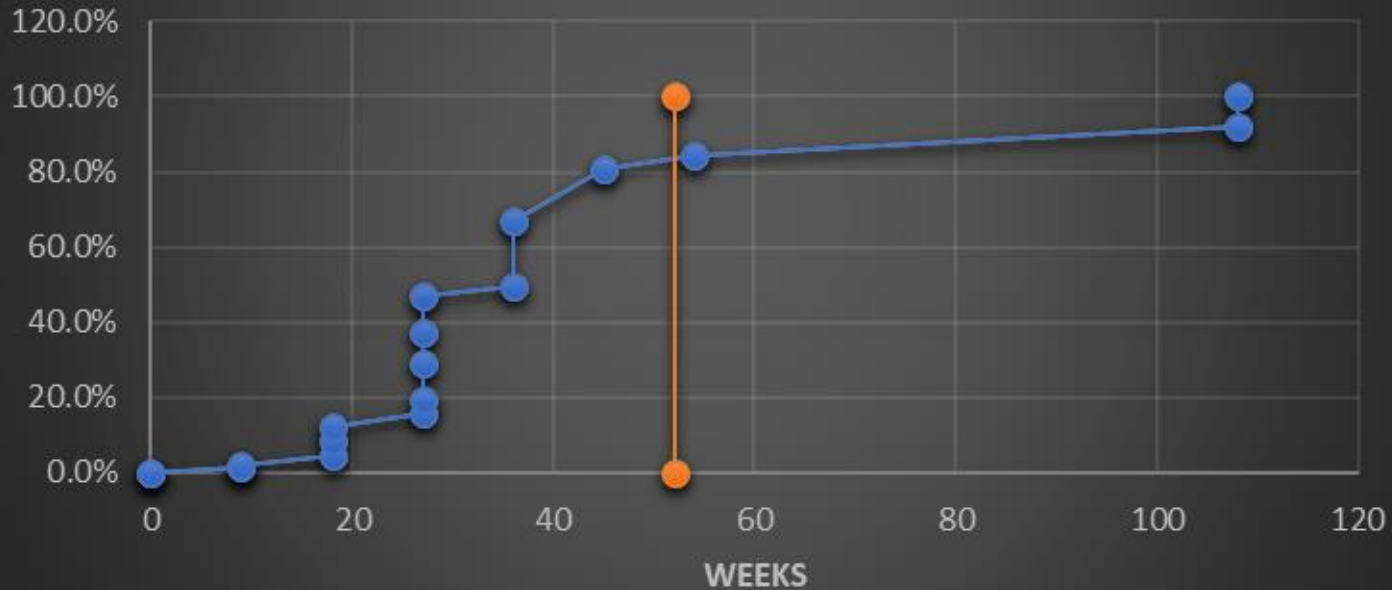
Basic Components of Timeline

- Test protocol publication
- Engineering
- Testing
- Issuance of Certificate (~1 -2 weeks)
- Qualified Equipment List (1 month ?)
- Shipping logistics (2-6 months, 3 typical)

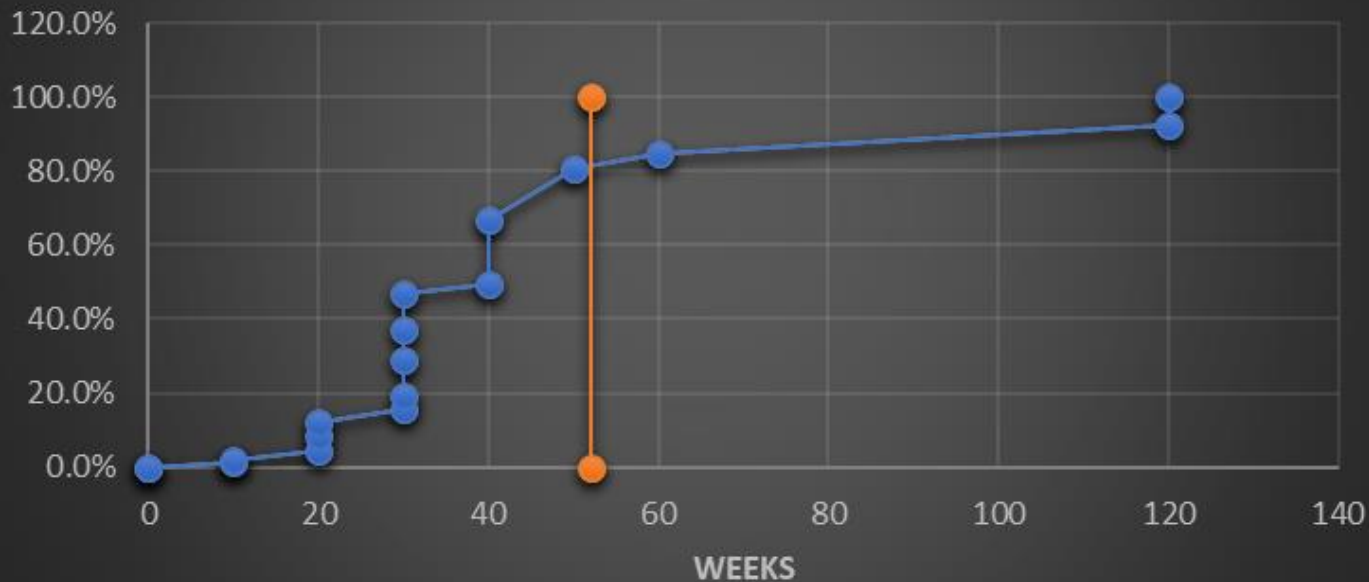
Test Time Data

- Surveys of 11 manufacturers (+1), 95 inverter families
- Outreach to another 20 – no response
- Responses from 3 major NRTLs on
 - Lab capabilities, tests in parallel, test time assumptions
- ~60 other Smart Inverter families on CEC list
- Survey covered about 60% of total inverter families
- ~92% of PG&E market coverage (by # interconnections Aug 20 - July 21)
- Unsurveyed models divided by NRTL
 - Divided “evenly” amongst lab/witness/supervised testing, with assumptions
- Tests in parallel per NRTL were assumed for one major (16.2% share) and two minors (11% share combined)

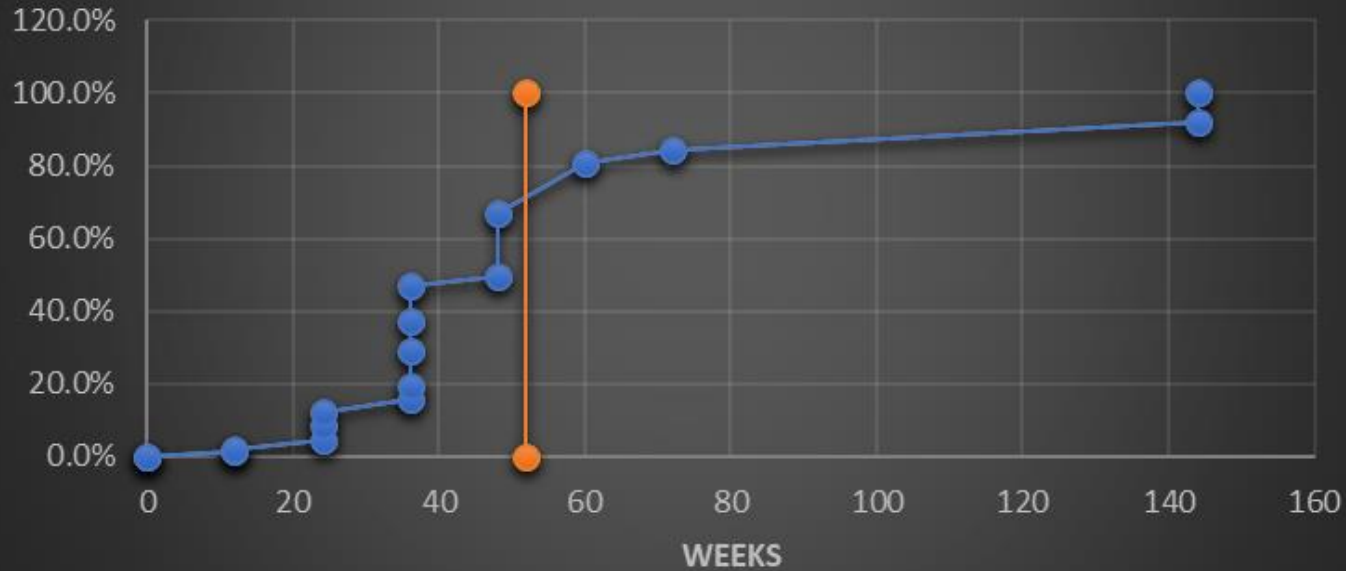
Certifications Over Time (9wk test time)



Certifications Over Time (10wk test time)



Certifications Over Time (12wk test time)



What should timeline be?

- Add ~18 weeks to test time (certificate/listing/logistics)
- Uncertainty in actual timeline
- SA is similar functionality to SB
- Is a date certain necessary?



Thank you!

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